Application Serial No.: 09/830,677 . • • . • . In response to the Office Action mailed June 3, 2003

AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) Device A device for removing biomolecules comprising an ultrafiltration module optionally upstream and in series with a dialysis module, characterized in that wherein this device further comprises a column containing an adsorbent gel combining the properties of size exclusion and affinity chromatographies, said adsorbent gel consisting essentially of a polysaccharide matrix onto which is grafted a polymer coupled to an affinity ligand and having an adjustable cut-off of between 2 kDA and 60 kDa, said column being mounted branching from said ultrafiltration module.
- 2. (Currently Amended) Device The device according to claim 1, characterized in that wherein the adsorbent gel consists of a matrix based on an agarose derivative onto which is grafted polyethylene glycol coupled to iminodiacetic acid itself coupled to copper(I) ions and having a cut-off of 20 kDa.
- 3. (Currently Amended) Device A device for separating and purifying biomolecules comprising a column containing an adsorbent gel combining the properties of size exclusion and affinity chromatographies, said gel consisting essentially of a polysaccharide matrix onto which is grafted a polymer coupled to an affinity ligand and having an adjustable cut-off of between 2 kDA and 60 kDa, said column being mounted branching from said ultrafiltration module.
- 4. (Currently Amended) Device The device according to claim 3, characterized in that wherein the adsorbent gel consists of a matrix based on an agarose derivative onto which is grafted polyethylene glycol coupled to iminodiacetic acid itself coupled to copper(I) ions and having a cut-off of 20 kDa.
- 5. (Currently Amended) Device The device according to claim 2, characterized in that wherein the biomolecule is serum β2-microglobulin.

6. - 8. (Canceled)

9. (Currently Amended) Device The device according to claim 1, eharacterized in that wherein the device is an extracorporeal dialysis system.

- 10. (New) The device according to claim 4, wherein the biomolecule is serum β 2-microglobulin.
- 11. (New) The device according to claim 3, wherein the device is an extracorporeal dialysis system.
- 12 (New) A method for removing biomolecules from blood, said method comprising passing said blood in a device according to claim 1.
- 13. (New) The method according to claim 10, wherein the device comprises an adsorbent gel consisting of a matrix based on an agarose derivative onto which is grafted polyethylene glycol coupled to iminodiacetic acid itself coupled to copper(I) ions and having a cut-off of 20 kDa.
- 14. (New) The method according to claim 11, wherein the biomolecule is serum β 2-microglobulin.
- 15. (New) The method according to claim 10, wherein the device is an extracorporeal dialysis system.

SUPPORT FOR THE AMENDMENT

Claims 6-8 have been canceled.

Claims 1-5 and 9 have been amended.

Claims 10-15 have been added.

The amendment of Claims 1-5 and 9 is supported by the corresponding claims as previously pending and the specification as originally filed. Original Claims 5 and 9 support new Claims 10-11. Original Claims 6-8 and Example 2 beginning on page 14, line 31 of the present specification support new Claims 12-15.

No new matter has been added by the present amendment.

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